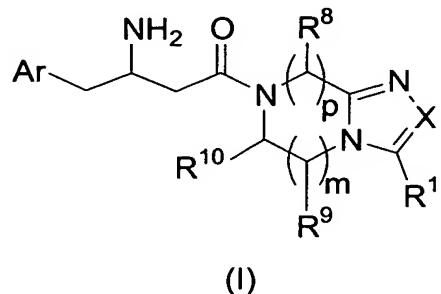


**Amendment to the Claims:**

Cancel Claims 22, 25, 26, 27, 29, and 30.

**Listing of Claims:**

1. (original) A compound of structural formula I:



(I)

wherein

each n is independently 0, 1, or 2;

m is 1 or 2;

p is 1 or 2; with the proviso that m + p is 3;

X is N or CR<sup>2</sup>;

Ar is phenyl substituted with one to five R<sup>3</sup> substituents;

R<sup>1</sup> and R<sup>2</sup> are each independently selected from the group consisting of

hydrogen,

halogen,

hydroxy,

cyano,

C<sub>1-10</sub> alkyl, wherein alkyl is unsubstituted or substituted with one to five substituents

independently selected from halogen or hydroxy,

C<sub>1-10</sub> alkoxy, wherein alkoxy is unsubstituted or substituted with one to five substituents

independently selected from halogen or hydroxy,

C<sub>1-10</sub> alkylthio, wherein alkylthio is unsubstituted or substituted with one to five substituents

independently selected from halogen or hydroxy,

C<sub>2-10</sub> alkenyl, wherein alkenyl is unsubstituted or substituted with one to five substituents

independently selected from halogen or hydroxy,

(CH<sub>2</sub>)<sub>n</sub>COOH,

(CH<sub>2</sub>)<sub>n</sub>COOC<sub>1-6</sub> alkyl,

(CH<sub>2</sub>)<sub>n</sub>CONR<sup>4</sup>R<sup>5</sup>, wherein R<sup>4</sup> and R<sup>5</sup> are independently selected from the group consisting of hydrogen, tetrazolyl, thiazolyl, (CH<sub>2</sub>)<sub>n</sub>-phenyl, (CH<sub>2</sub>)<sub>n</sub>-C<sub>3-6</sub> cycloalkyl, and C<sub>1-6</sub> alkyl, wherein alkyl is unsubstituted or substituted with one to five halogens and wherein phenyl and cycloalkyl are unsubstituted or substituted with one to five substituents independently selected from halogen, hydroxy, C<sub>1-6</sub> alkyl, and C<sub>1-6</sub> alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens; or R<sup>4</sup> and R<sup>5</sup> together with the nitrogen atom to which they are attached form a heterocyclic ring selected from azetidine, pyrrolidine, piperidine, piperazine, and morpholine wherein said heterocyclic ring is unsubstituted or substituted with one to five substituents independently selected from halogen, hydroxy, C<sub>1-6</sub> alkyl, and C<sub>1-6</sub> alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens;

(CH<sub>2</sub>)<sub>n</sub>-NR<sup>4</sup>R<sup>5</sup>,

(CH<sub>2</sub>)<sub>n</sub>-OCONR<sup>4</sup>R<sup>5</sup>,

(CH<sub>2</sub>)<sub>n</sub>-SO<sub>2</sub>NR<sup>4</sup>R<sup>5</sup>,

(CH<sub>2</sub>)<sub>n</sub>-SO<sub>2</sub>R<sup>6</sup>,

(CH<sub>2</sub>)<sub>n</sub>-NR<sup>7</sup>SO<sub>2</sub>R<sup>6</sup>,

(CH<sub>2</sub>)<sub>n</sub>-NR<sup>7</sup>CONR<sup>4</sup>R<sup>5</sup>,

(CH<sub>2</sub>)<sub>n</sub>-NR<sup>7</sup>COR<sup>7</sup>,

(CH<sub>2</sub>)<sub>n</sub>-NR<sup>7</sup>CO<sub>2</sub>R<sup>6</sup>,

(CH<sub>2</sub>)<sub>n</sub>-COR<sup>6</sup>,

(CH<sub>2</sub>)<sub>n</sub>-C<sub>3-6</sub> cycloalkyl, wherein cycloalkyl is unsubstituted or substituted with one to three substituents independently selected from halogen, hydroxy, C<sub>1-6</sub> alkyl, and C<sub>1-6</sub> alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens,

(CH<sub>2</sub>)<sub>n</sub>-aryl, wherein aryl is unsubstituted or substituted with one to five substituents independently selected from halogen, cyano, hydroxy, NR<sup>7</sup>SO<sub>2</sub>R<sup>6</sup>, SO<sub>2</sub>R<sup>6</sup>, CO<sub>2</sub>H, C<sub>1-6</sub> alkyloxycarbonyl, C<sub>1-6</sub> alkyl, and C<sub>1-6</sub> alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens,

(CH<sub>2</sub>)<sub>n</sub>-heteroaryl, wherein heteroaryl is unsubstituted or substituted with one to three substituents independently selected from hydroxy, halogen, C<sub>1-6</sub> alkyl, and C<sub>1-6</sub> alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens, and (CH<sub>2</sub>)<sub>n</sub>-heterocycl, wherein heterocycl is unsubstituted or substituted with one to three substituents independently selected from oxo, hydroxy, halogen, C<sub>1-6</sub> alkyl, and C<sub>1-6</sub>

alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens,

wherein any methylene ( $\text{CH}_2$ ) carbon atom in R<sup>1</sup> or R<sup>2</sup> is unsubstituted or substituted with one to two groups independently selected from halogen, hydroxy, and C<sub>1-4</sub> alkyl unsubstituted or substituted with one to five halogens;

each R<sup>3</sup> is independently selected from the group consisting of

hydrogen,

halogen,

cyano,

hydroxy,

C<sub>1-6</sub> alkyl, unsubstituted or substituted with one to five halogens, and

C<sub>1-6</sub> alkoxy, unsubstituted or substituted with one to five halogens;

R<sup>6</sup> is independently selected from the group consisting of tetrazolyl, thiazolyl, (CH<sub>2</sub>)<sub>n</sub>-phenyl, (CH<sub>2</sub>)<sub>n</sub>-C<sub>3-6</sub> cycloalkyl, and C<sub>1-6</sub> alkyl, wherein alkyl is unsubstituted or substituted with one to five halogens and wherein phenyl and cycloalkyl are unsubstituted or substituted with one to five substituents independently selected from halogen, hydroxy, C<sub>1-6</sub> alkyl, and C<sub>1-6</sub> alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens, and wherein any methylene (CH<sub>2</sub>) carbon atom in R<sup>6</sup> is unsubstituted or substituted with one to two groups independently selected from halogen, hydroxy, C<sub>1-4</sub> alkyl, and C<sub>1-4</sub> alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens;

each R<sup>7</sup> is hydrogen or R<sup>6</sup>;

each R<sup>8</sup>, R<sup>9</sup>, and R<sup>10</sup> is independently selected from the group consisting of

hydrogen,

cyano,

carboxy,

C<sub>1-6</sub> alkyloxycarbonyl,

C<sub>1-10</sub> alkyl, unsubstituted or substituted with one to five substituents independently selected from halogen, hydroxy, C<sub>1-6</sub> alkoxy, carboxy,

C<sub>1-6</sub> alkyloxycarbonyl, and phenyl-C<sub>1-3</sub> alkoxy, wherein alkoxy is unsubstituted or substituted with one to five halogens,

(CH<sub>2</sub>)<sub>n</sub>-aryl, wherein aryl is unsubstituted or substituted with one to five substituents independently selected from halogen, hydroxy, C<sub>1</sub>-6 alkyl, and C<sub>1</sub>-6 alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens,

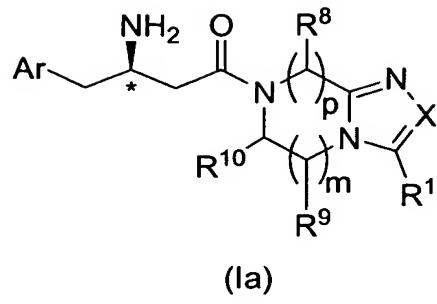
(CH<sub>2</sub>)<sub>n</sub>-heteroaryl, wherein heteroaryl is unsubstituted or substituted with one to three substituents independently selected from hydroxy, halogen, C<sub>1</sub>-6 alkyl, and C<sub>1</sub>-6 alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens,

(CH<sub>2</sub>)<sub>n</sub>-heterocyclyl, wherein heterocyclyl is unsubstituted or substituted with one to three substituents independently selected from oxo, hydroxy, halogen, C<sub>1</sub>-6 alkyl, and C<sub>1</sub>-6 alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens,

(CH<sub>2</sub>)<sub>n</sub>-C<sub>3</sub>-6 cycloalkyl, wherein cycloalkyl is unsubstituted or substituted with one to three substituents independently selected from halogen, hydroxy, C<sub>1</sub>-6 alkyl, and C<sub>1</sub>-6 alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens, and

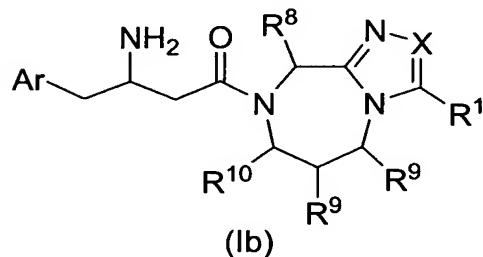
(CH<sub>2</sub>)<sub>n</sub>CONR<sup>4</sup>R<sup>5</sup>, wherein R<sup>4</sup> and R<sup>5</sup> are independently selected from the group consisting of hydrogen, tetrazolyl, thiazolyl, (CH<sub>2</sub>)<sub>n</sub>-phenyl, (CH<sub>2</sub>)<sub>n</sub>-C<sub>3</sub>-6 cycloalkyl, and C<sub>1</sub>-6 alkyl, wherein alkyl is unsubstituted or substituted with one to five halogens and wherein phenyl and cycloalkyl are unsubstituted or substituted with one to five substituents independently selected from halogen, hydroxy, C<sub>1</sub>-6 alkyl, and C<sub>1</sub>-6 alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens; or R<sup>4</sup> and R<sup>5</sup> together with the nitrogen atom to which they are attached form a heterocyclic ring selected from azetidine, pyrrolidine, piperidine, piperazine, and morpholine wherein said heterocyclic ring is unsubstituted or substituted with one to five substituents independently selected from halogen, hydroxy, C<sub>1</sub>-6 alkyl, and C<sub>1</sub>-6 alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens; wherein any methylene (CH<sub>2</sub>) carbon atom in R<sup>8</sup>, R<sup>9</sup> or R<sup>10</sup> is unsubstituted or substituted with one to two groups independently selected from halogen, hydroxy, and C<sub>1</sub>-4 alkyl unsubstituted or substituted with one to five halogens.

2. (original) The compound of Claim 1 of structural formula Ia wherein the carbon atom marked with an \* has the *R* configuration:



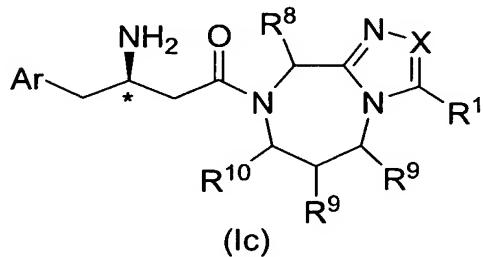
(Ia)

3. (original) The compound of Claim 1 of structural formula Ib:



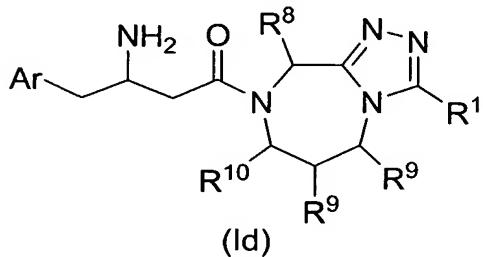
(Ib)

4. (original) The compound of Claim 3 of structural formula Ic wherein the carbon atom marked with an \* has the R configuration



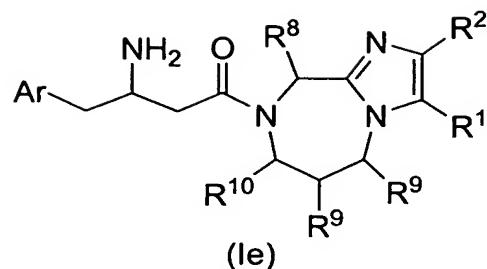
(Ic)

5. (original) The compound of Claim 3 of structural formula Id:

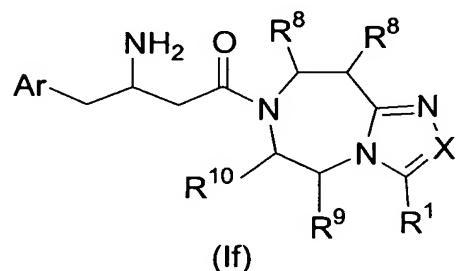


(Id)

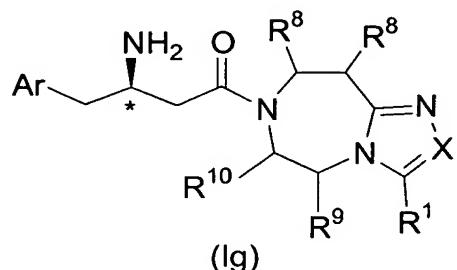
6. (original) The compound of Claim 3 of structural formula Ie:



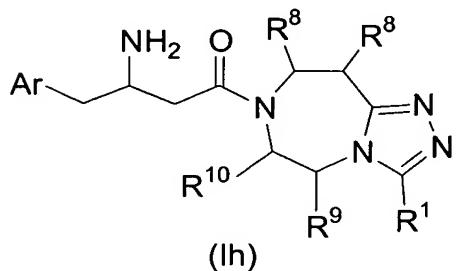
7. (original) The compound of Claim 1 of structural formula If:



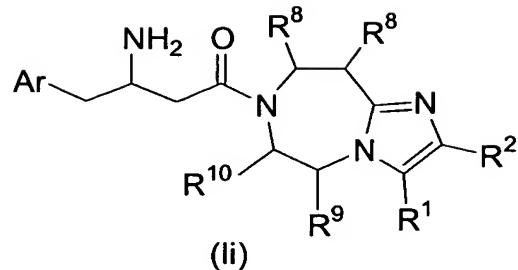
8. (original) The compound of Claim 7 of structural formula Ig wherein the carbon atom marked with an \* has the *R* configuration:



9. (original) The compound of Claim 7 of structural formula Ih:



10. (original) The compound of Claim 7 of structural formula Ii:



11. (original) The compound of Claim 1 wherein R<sup>3</sup> is selected from the group consisting of hydrogen, fluoro, chloro, bromo, trifluoromethyl, and methyl.

12. (original) The compound of Claim 11 wherein R<sup>3</sup> is selected from the group consisting of hydrogen, fluoro, and chloro

13. (original) The compound of Claim 1 wherein R<sup>1</sup> is selected from the group consisting of:

hydrogen,

halogen,

C<sub>1</sub>-6 alkyl, wherein alkyl is unsubstituted or substituted with one to five substituents

independently selected from halogen or hydroxy,

(CH<sub>2</sub>)<sub>n</sub>-aryl, wherein aryl is unsubstituted or substituted with one to five substituents

independently selected from halogen, CN, hydroxy, NR<sup>7</sup>SO<sub>2</sub>R<sup>6</sup>, SO<sub>2</sub>R<sup>6</sup>, CO<sub>2</sub>H, C<sub>1</sub>-6 alkyloxycarbonyl, C<sub>1</sub>-6 alkyl, and

C<sub>1</sub>-6 alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens;

(CH<sub>2</sub>)<sub>n</sub>-heteroaryl, wherein heteroaryl is unsubstituted or substituted with one to three

substituents independently selected from hydroxy, halogen, C<sub>1</sub>-6 alkyl, and C<sub>1</sub>-6 alkoxy, wherein alkyl and alkoxy are unsubstituted or substituted with one to five halogens, and wherein any methylene (CH<sub>2</sub>) carbon atom in R<sup>1</sup> is unsubstituted or substituted with one to two groups independently selected from halogen, hydroxy, and C<sub>1</sub>-4 alkyl unsubstituted or substituted with one to five halogens.

14. (original) The compound of Claim 13 wherein R<sup>1</sup> is selected from the group consisting of

hydrogen,

methyl,

trifluoromethyl,  
phenyl,  
4-fluorophenyl,  
4-(trifluoromethyl)phenyl,  
4-(trifluoromethoxy)phenyl, and  
5-methyl-1,3,4-oxadiazol-2-yl.

15. (original) The compound of Claim 1 wherein R<sup>2</sup> is selected from the group consisting of

hydrogen,  
halogen, and  
C<sub>1</sub>-6 alkyl, wherein alkyl is unsubstituted or substituted with one to five substituents independently selected from halogen or hydroxy.

16. (original) The compound of Claim 15 wherein R<sup>2</sup> is selected from the group consisting of hydrogen and trifluoromethyl.

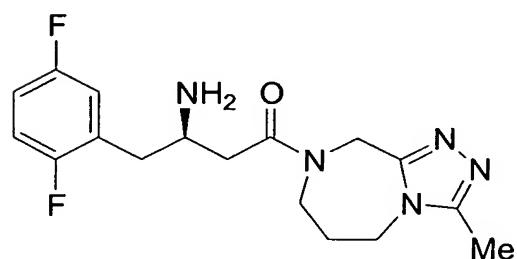
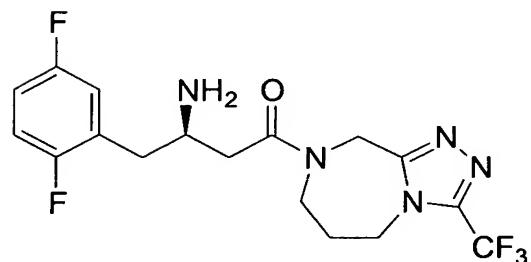
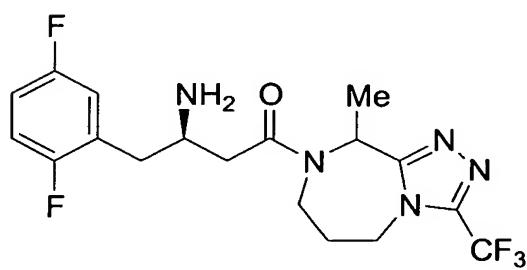
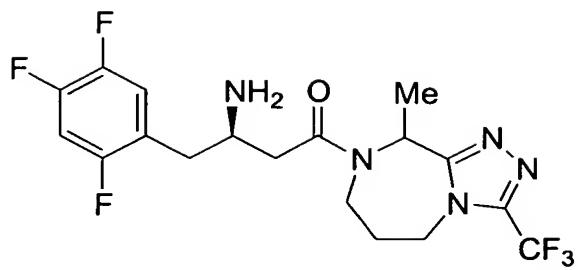
17. (original) The compound of Claim 1 wherein R<sup>8</sup>, R<sup>9</sup>, and R<sup>10</sup> are independently selected from the group consisting of:

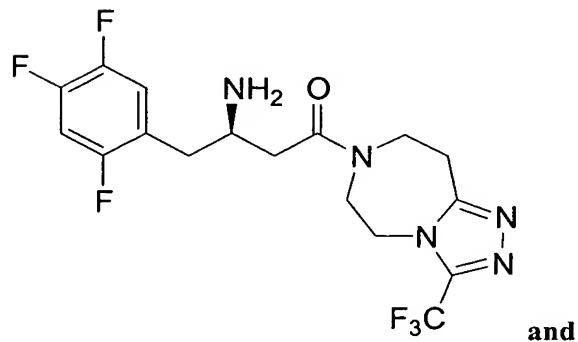
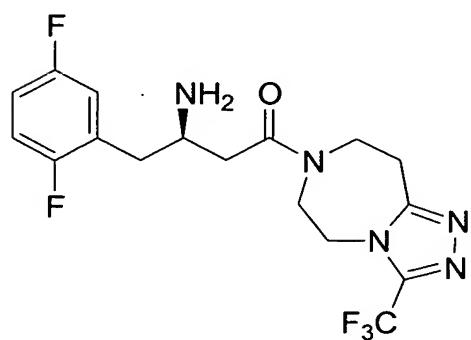
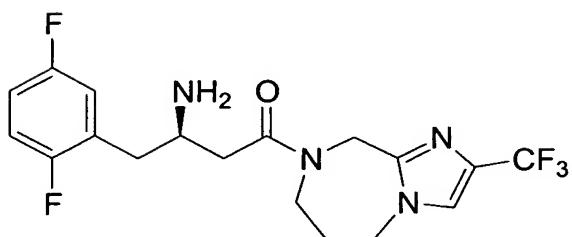
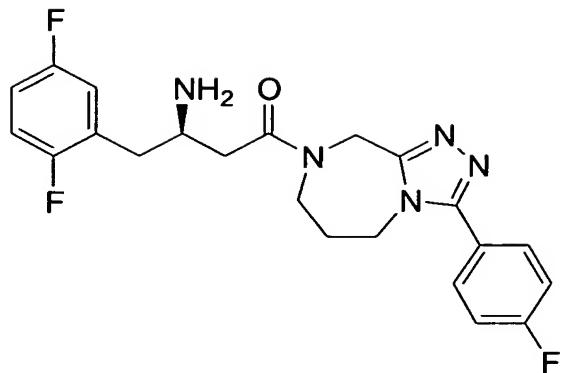
hydrogen and  
C<sub>1</sub>-6 alkyl, unsubstituted or substituted with one to five substituents independently selected from halogen, hydroxy, C<sub>1</sub>-6 alkoxy, and phenyl-C<sub>1</sub>-3 alkoxy, wherein alkoxy is unsubstituted or substituted with one to five halogens.

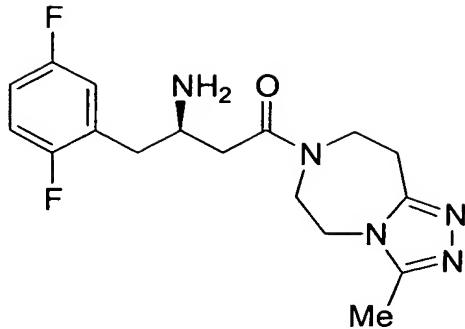
18. (original) The compound of Claim 17 wherein R<sup>8</sup>, R<sup>9</sup>, and R<sup>10</sup> are each independently selected from the group consisting of hydrogen and methyl.

19. (original) The compound of Claim 18 wherein R<sup>9</sup> and R<sup>10</sup> are hydrogen.

20. (original) The compound of Claim 2 which is selected from the group consisting of:







or a pharmaceutically acceptable salt thereof.

21. (original) A pharmaceutical composition which comprises a compound of Claim 1 and a pharmaceutically acceptable carrier.

22. (cancelled)

23. (original) A method for treating non-insulin dependent (Type 2) diabetes in a mammal in need thereof which comprises the administration to the mammal of a therapeutically effective amount of a compound of Claim 1.

24. (original) A method for treating hyperglycemia in a mammal in need thereof which comprises the administration to the mammal of a therapeutically effective amount of a compound of Claim 1.

25-27. (cancelled)

28. (original) The pharmaceutical composition of Claim 21 further comprising one or more additional active ingredients selected from the group consisting of:

- (a) a second dipeptidyl peptidase IV inhibitor;
- (b) an insulin sensitizer selected from the group consisting of a PPAR $\gamma$  agonist, a PPAR $\alpha/\gamma$  dual agonist, a PPAR $\alpha$  agonist, a biguanide, and a protein tyrosine phosphatase-1B inhibitor;
- (c) an insulin or insulin mimetic;
- (d) a sulfonylurea or other insulin secretagogue;
- (e) an  $\alpha$ -glucosidase inhibitor;
- (f) a glucagon receptor antagonist;

- (g) GLP-1, a GLP-1 mimetic, or a GLP-1 receptor agonist;
- (h) GIP, a GIP mimetic, or a GIP receptor agonist;
- (i) PACAP, a PACAP mimetic, or a PACAP receptor agonist;
- (j) a cholesterol lowering agent such as (i) HMG-CoA reductase inhibitor, (ii) sequestrant, (iii) nicotinyl alcohol, nicotinic acid or a salt thereof, (iv) PPAR $\alpha$  agonist, (v) PPAR $\alpha/\gamma$  dual agonist, (vi) inhibitor of cholesterol absorption, (vii) acyl CoA:cholesterol acyltransferase inhibitor, and (viii) anti-oxidant;
- (k) a PPAR $\delta$  agonist;
- (l) an antiobesity compound;
- (m) an ileal bile acid transporter inhibitor;
- (n) an anti-inflammatory agent; and
- (o) an antihypertensive agent.

29-30 (cancelled)